Conservation Records

For Your Farm or Ranch

Name: _____

Farm/Ranch: _____

Table of Contents

Land Operator Information

The following information is needed by your conservation planner to develop a quality conservation plan. A privacy statement is available for you to fill out on page 16-17. This ensures that the information you detail throughout this plan remains confidential between you and the Natural Resources Conservation Service.

Name of Landowner(s) _____

Name of Land Manager(s) _____

Business or Farm Name _____

Address _____

City _____ ***State*** _____

County _____ ***Zip Code*** _____

Phone Numbers: ***Home*** _____

Business _____

Cell _____

E-mail Address _____

Property Information

Property Location:

In order to identify the property location, please fill out the table below. Your farm number, tract number and total acres can be located on an aerial map. Aerial map photocopies of your property can be obtained at your local US Department of Agriculture Service Center. Township, range, and section numbers can be located with the following resources: county soil survey book, 7.5 min. quad map (can be found at a bookstore or sporting goods store), tax lot number from the county courthouse, deed of land and the local irrigation district.

Property Name	*Farm or Tract Number*	*Field Numbers*	*Town-ship*	*Range*	*Section(s)*	*Acres*	*Own*	*Operate*
Jones Farm	T251	1	135	3E	21	30		√
Jones Farm	T251	2	135	3E	21	10		√
Jones Farm	T251	3	135	3E	22	80		√
Smith Farm	T252	1	135	3E	22	120	√	√
Smith Farm	T252	2	135	3E	22	95	√	√
Smith Farm	T252	HQ	135	3E	22	5	√	√
Property Name	*Farm or Tract Number*	*Field Numbers*	*Town-ship*	*Range*	*Section(s)*	*Acres*	*Own*	*Operate*

Farm Location Map

On this page, please draw or attach a map showing directions to your farm in relation to well-known features (highways, towns). On the following page, draw or attach a detailed map of your farm or ranch operation (field boundaries, access roads, streams, etc.). Include the location of conservation practices (fences, terraces, pipelines, etc.) you have installed on each field. Attach additional pages if necessary.

Property Location Map

Please indicate North with Compass.

Conservation Farm Map

Farm Map Legend

Property Boundary	Road	Fence	Homestead
Stream	2 Field Number	Well	Spring
Water	Ditch	Pipeline	Trough

Label Land Uses in Designated Fields

Please indicate North with Compass.

Notes

The Privacy Act

Privacy Act Statement for NRCS Conservation Program Applications

Your Conservation Plan is confidential. According to the Privacy Act, **none** of the information you provide in your conservation plan with the Natural Resources Conservation Service is allowed to be shared with other individuals without your written permission.

Name: _____

In order to process your program application, the Natural Resources Conservation Service (NRCS) and Soil and Water Conservation District (SWCD) employees, directors and board members while acting for NRCS may be required to release a minimum amount of your personal information. This release of information will only be in the course of processing the application, and will only consist of the information stated below. It will only be released to the person(s) listed below.

Disclosure of information by you is voluntary. Failure to provide information requested on this form may result in the government's inability to determine your suitability for the program for which you are applying. Please read the information form carefully, then sign and date where indicated.

☐ **Do not release any of my application information**

☐ **NRCS has my permission to release the following information**:

Name: _____

Address: _____

Other Information: _____

_____

☐ **NRCS has my permission to release the above information in the following situations:**

☐ Soil and Water Conservation District open meetings and minutes from the meeting.

☐ Other Situations or Persons _____

_____

Privacy Act of 1974 Compliance Information: Solicitation of information contained herein is authorized by Executive Order 10450, and/or Section 231 of the Crime Control Act of 1990 (42 U.S.C. 13041), and may be used as a basis for suitability determinations. Information may be transferred as a routine use to appropriate federal, state or local agencies when relevant to the issuance of a license, grant, or approval for participation in a conservation program.

USDA Nondiscrimination Statement: The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, and marital or family status (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice or TDD.) USDA is an equal opportunity provider and employer.

Authorization and Release: I hereby authorize the Natural Resources Conservation Service (NRCS) to release certain information contained in the enclosed application. The information released will only be information needed to process my application. I have been informed of my rights under the Privacy Act of 1974 and the protection of my personal information under USDA NRCS General Manual Part 408.

Signature: _____ Date: _____

The Privacy Act

Authorization for NRCS Release of Conservation Plan File Information

This form allows us to share specific information in your conservation plan with other agencies. By signing this form, NRCS has the ability to make sure that you and NRCS are both complying with the following laws: the Endangered Species Act, Wetland Reserve Act, National Historic Preservation Act and Clean Water Act. **If you do not sign this form, we are unable to provide you any technical or financial assistance for New Practices or Enhancement Activities under the Conservation Security Program.**

Authorization for NRCS Release of Conservation Plan File Information

Persons receiving Federal funding or final designs/specifications through the USDA Natural Resources Conservation Service (NRCS) to implement conservation projects are required to comply with all Federal, State, and local laws, as well as obtain any required Federal, State, or local permits prior to construction of the project. In order to ensure compliance with Endangered Species Act (ESA) and the Magnuson-Stevens Act (MSA), NRCS is required to consult with US Fish and Wildlife Service (USFWS) and National Oceanic and Atmospheric Administration (NOAA) – Fisheries [formerly referred to as the National Marine Fisheries Service (NMFS)] if we determine our actions will affect Threatened or Endangered species or their habitat. The National Historic Preservation Act (NHPA) requires NRCS to cooperate with the State Historic Preservation Office (SHPO) and the Advisory Council on Historic Preservation (Advisory Council).

I, _____, have control of said project and/or property, and give my consent for NRCS to consult with and/or release pertinent information from my project or construction plans relating to said consultation with the USFWS, NOAA Fisheries, Advisory Council, and SHPO to ensure compliance with ESA, MSA, and NHPA. This does not authorize access to my private property by non-NRCS agencies, groups or individuals.

I, _____, have control of said project and/or property and choose **not** to give my consent for NRCS to consult with and/or release pertinent information from my project or construction plan relating to said consultation with the USFWS, NOAA Fisheries, Advisory Council, and SHPO to ensure compliance with ESA, MSA, and NHPA.

If you choose not to give your consent, you may work directly with these agencies when the need arises and provide assurance of ESA, MSA and NHPA compliance to the NRCS prior to implementation of your planned project. NRCS will provide you no further assistance until the consultation process has been completed.

Note: Failure to provide consent may affect your eligibility to receive USDA funding for your project. You may cancel this consent by written notice.

Signature: _____ Date: _____

Conservation Records

Crop and Hay Land Inventory

Cropland Inventory

Crop Rotation and Management

This worksheet will provide information regarding your crop varieties as well as the rotation they are grown on your operations. Please fill out this form if you have cropland or hayland that has a rotational sequence. Use the example below to fill out your information on the following page.

1. EXAMPLE: Crop Rotation and Management Worksheet

Tract Numbers	*Field Numbers or Names*	*Typical Rotation Sequences*									
		Yr 1	*Yr 2*	*Yr 3*	*Yr 4*	*Yr 5*	*Yr 6*	*Yr 7*	*Yr 8*	*Yr 9*	*Yr 10*
486	3 & 4	Perennial/Rye Grass Seed				Crimson Clover	Winter Wheat				
695	5, 6, & 7	Alfalfa			Potatoes	Winter Wheat	Potatoes	Corn			
1311	1, 2, & 8	Winter Wheat	Spring Barley	Summer Fallow							

Additional Comments or Observations:

Cropland Inventory

1. Crop Rotation and Management Worksheet

Tract Number	Field Numbers or Names	Typical Rotation Sequences									
		Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10

Additional Comments or Observations:

Cropland Inventory

Crop Residue Management

This worksheet will provide information regarding the crop residue left on your fields as well as how it is removed. This worksheet does not apply to alfalfa, hay or other forage crops. Please fill out this form if you have cropland. You do not need to fill it out if you have forage crops. Please refer to the example below for your reference and then fill out your information on the following page. Use the Residue Estimate table below to assist with the completion of this form. Refer to the chart below when completing the *Estimated Amount of Residue* column.

Estimated pounds of residue per unit of yield	
Crop	***Pounds of residue per unit of yield***
Winter Wheat	**80-110 pounds/bushel**
Winter Barley	**1.0-1.7 pounds/pound**
Spring Wheat	**70-100 pounds/bushel**
Spring Barley	**.85-1.5 pounds/pound**
Spring Peas	**.85-1.4 pounds/pound**
Lentils	**.85-1.4 pounds/pound**
Oats	**40-60 pounds/bushel**
Corn / Grain	**50-60 pounds/bushel**
Grass / Seed	**4.0-4.75 pounds/pound**
Canola	**2.5-2.75 pounds/pound**
Clover Seed	**.75-1.5 pounds/pound**

Example: A 60 bushel per acre crop of winter wheat produces 4,800-6,600 pounds of residue per acre.

Note: The specific amount of residue produced by a crop depends on several factors. These include timing and amount of precipitation, temperatures, stored soil water, soil depth, crop variety and pests.

2. EXAMPLE: Crop and Residue Management Worksheet

Crop Grown	***Planting Date***	***Harvest Date***	***Average Yield per Acre***	***Estimated Amount of Residue***	***Is Residue Removed?***	***Removal Method***
Winter Wheat	**10/1 to 10/5**	**8/1 to 8/10**	**100 bu (irr) 60 bu (NIrr)**	**10,000 lbs 5,500 lbs**	**N**	**-----**
Perennial Rye Grass	**8/20**	**7/5 to 7/15**	**1500 lbs/ acre**	**7,000 lbs/acre**	**Y**	**Swath & Bale**
Crimson Clover	**8/15**	**6/25**	**800 lbs/acre**	**1,000 lbs/acre**	**N**	**----**
Spring Barley	**4/1**	**7/20**	**3,000 lbs/acre**	**3,700 lbs/acre**	**N**	**----**
Corn	**5/10**	**10/15 to 10/20**	**130 bu**	**7,800 lbs/acre**	**N**	**----**
Potatoes	**3/15 Early 5/1 Late**	**10/15 11/5**		**500 lbs/acre**	**N**	**----**
Alfalfa Hay	**Seed 5/15 year**	**4 cuttings**	**8 tons**	**----**	**----**	**Bale Remove Hay**

2. Crop and Residue Management Worksheet

Crop Grown	*Planting Date*	*Harvest Date*	*Average Yield per Acre*	*Estimated Amount of Residue*	*Is Residue Removed?*	*Removal Method*

Additional Comments/Observations:

Cropland Inventory

Cultivation and Field Operations

This worksheet provides information on your present tillage practices. On pages C&H 8-9 you will find a list of typical tillage sequences to assist in the completion of the *Typical Tillage Sequence by Crop* column. Please use this to help you fill out this section and include the time period in which the tillage took place, as shown by the example.

Please refer to the example below for your reference and then fill out your information on the following page.

3. EXAMPLE: Cultivation and Field Operations Worksheet

Crop Grown	*Field Number*	*Tract Number*	*Typical Tillage Sequences by Crop (Include Date)*
Perennial Rye Grass Seed	3 & 4	486	Disk 8/15, MB Plow 9/1, Field cultivation & harrow 9/5, Harrow & cultipacker 9/10, Disk drill 9/20
Winter Wheat Irrigated	5, 7, & 9	695	Disk 10/20, Harrow & cultipacker 10/25, Disk 11/1
Winter Wheat	3 & 4	486	Herbicide spray 10/1, No-till disk drill 10/20
Winter Wheat	1, 2, & 8	1311	Spray weeds 3/20, Chisel 4/20, Field cult/sweeps 5/15, Shank fertilizer 6/20, Rodweed 2x, Deepfurrow drill 9/25
Potatoes	5,6, & 7	695	Disk 3/15, Cultivate/harrow 3/20, Harrow/cultipack 2/25, Planter 3/15, Hill 4/10
Spring Barley	1, 2, & 8	1311	Chisel 10/20, Field cult. 3/15, Shank fertilizer 3/20, Rodweed 3/25, Double disk drill 4/1
Corn	5, 6, & 7	695	Chisel 4/25, Field cultivation 5/11, Harrow 5/5, Double disk planter 5/10, Row cultivator 5/25
Crimson Clover	3 & 4	486	Disk 8/20, MB plow 8/25, Field cultivator & harrow 9/5, Harrow & cultipack 9/10, Double disk drill 9/15
Alfalfa	1, 2, & 8	695	Disk 2x 4/15, Harrow & cultipack 5/1, Double disk drill 5/15

Additional Comments/Observations:

Cropland Inventory

3. Cultivation and Field Operations Worksheet

Crop Grown	*Field Number*	*Tract Number*	*Typical Tillage Sequences by Crop (Include Date)*

Additional Comments/Observations:

Cropland Inventory

Typical Field Operations

Aerator, field surface, ground driven
Aerial seeding
Bale straw or residue
Bed shaper
Bed shaper, 12 in
Bedder, hipper, disk hiller
Bedder, hipper, hiller 12 in high
Bedder, hipper, hiller 15 in high
Bedder, hipper, hiller 18 in high
Burn residue
Chisel, st. pt.
Chisel, st. pt. 12 in deep
Chisel, st. pt. 15 in deep
Chisel, sweep shovel
Chisel, twisted shovel
Cultipacker, roller
Cultivator, field 6-12 in sweeps
Cultivator, field w/ spike points
Cultivator, hipper, disk hiller on beds
Cultivator, off bar w/disk hillers on beds
Cultivator, row - 1st pass ridge till
Cultivator, row - 2nd pass ridge till
Cultivator, row 1 in ridge
Cultivator, row 3 in ridge
Cultivator, row, high residue
Disk, offset, heavy
Disk, offset, heavy 12 in depth
Disk, offset, heavy 15 in depth
Disk, tandem heavy primary op.
Disk, tandem light finishing
Disk, tandem secondary op.
Drill or air seeder single disk openers 7-10 in spac.
Drill or air seeder, hoe opener in hvy residue
Drill or air seeder, hoe/chisel openers 6-12 in spac.
Drill or airseeder, double disk
Drill or airseeder, double disk opener, w/ fert openers
Drill or airseeder, double disk, w/ fluted coulters
Drill or airseeder, offset double disk openers
Drill, air seeder, sweep or band opener
Drill, deep furrow 12 to 18 in spacing
Drill, heavy, direct seed, dbl disk opnr
Drill, heavy, direct seed, dbl disk opnr w/row cleaners
Drill, semi-deep furrow 12 to 18 in spacing
Fert applic. anhyd knife 12 in
Fert applic. deep plcmt hvy shnk
Fert applic. surface broadcast
Fert. applic. anhyd knife 30 in
Fert. applic., strip-till 30 in
Furrow diker
Furrow shaper, torpedo
Graze, continuous
Graze, intensive rotational
Graze, rotational
Graze, stubble or residue
Harrow, coiled tine
Harrow, heavy
Harrow, rotary
Harrow, spike tooth
Harrow, tine, on beds
Harvest, grass or legume seed, leave forage
Harvest, grass seed, remove forage
Harvest, hay, grass
Harvest, hay, legume
Harvest, hay, no regrowth
Harvest, small grains, corn, peas, canola, mustard
Harvest, legume seed, remove forage
Harvest, root crops, digger
Harvest, silage
Harvest, snapper header
Harvest, stripper header
Knife, windrow dry beans
Land plane
Lister, 40 in
Manure injector
Manure spreader
Mower, swather, windrower
Mulch treader
Para-plow or para-till
Permeable weed barrier applicator
Planter, double disk opnr
Planter, double disk opnr w/fluted coulter
Planter, double disk opnr, 18 in rows

Cropland Inventory

Typical Field Operations

Planter, in-row subsoiler
Planter, small veg seed
Planter, strip till
Planter, transplanter, vegetable
Planter, transplanter, vegetable, no-till
Planting, broadcast seeder
Plastic mulch applicator 100 percent cover
Plastic mulch applicator 40 percent cover
Plastic mulch applicator 75 percent cover
Plastic mulch, 05 percent removal
Plastic mulch, 10 percent removal
Plastic mulch, 25 percent removal
Plastic mulch, 50 percent removal
Plastic mulch, remove
Plow, disk
Plow, moldboard
Plow, moldboard, conservation
Plow, moldboard, up hill
Plow, reversible
Pruning
Rodweeder
Roller, corrugated packer
Roller, on beds
Roller, residue

Roller, smooth
Rotary hoe
Rototiller, field
Rototiller, field, add residue
Rototiller, row cult add residue
Rototiller, row cultivator
Seedbed finisher
Shredder, flail or rotary
Shredder, rotary, regrow veg
Shredder, rotary, remove residue
Sprayer, kill weeds, volunteer for reduced/no till
Sprayer, post emergence
Striptiller w/middlebuster on beds
Subsoiler
Subsoiler bedder (ripper/hipper)
Subsoiler ripper, 24 to 40 in. deep
Sweep plow 20-40 in wide
Sweep plow wider than 40 in w/mulch treader
Sweep plow, wider than 40 in
Water mulch; off
Water mulch; on

Cropland Inventory

Crop Fertilizer Input

This worksheet contains information on the nutrient applications on your operation. In the *Soil Test* column please indicate if your fertilizer application rate is based on soil test results. Please attach a copy of the latest soil test for each field.

Please refer to the example below for your reference and then fill out your information on the following page.

4. EXAMPLE: Crop Fertilizer Input Worksheet

Crop Grown	*Field Number*	*Fertilizer Formula-tion*	*Application Rate lbs/ac*	*Application Method and Date*	*Application Depth*	*Soil Test*
Perennial Rye Grass Seed	3 & 4	16-20-0	100 lbs/acre	Banded at fall planting	2 inches	Yes
Perennial Rye Grass	3 & 4	45-0-0	300 lbs/ acre	Broadcast in Feb. & application in April	Surface	No
Crimson Clover	3 & 4	None	----	----	----	----
Winter Wheat	3 & 4	16-20-0	100 lbs/acre	Banded at seeding in fall	2 inches	No
Winter Wheat	3 & 4	45-0-0	350 lbs/acre	Broadcast	----	No
Corn	5, 6, & 7	Feedlot Manure	10 tons/acre	Broadcast April	Disk to 4 inch depth	No
Alfalfa	5, 6, & 7	0-0-50-18	200 lbs/acre	Broadcast at seeding	Disk in	No
Potato	5, 6, & 7	20-10-10	500 lbs/acre	Banded at Planting	4 inches	Yes
Potato	5, 6, & 7	46-0-0	200 lbs/acre	Broadcast	Irrigated in	No

If irrigated, has water been tested for nitrates? Yes _____ No _____
If you have the results from this test, please attach them to this page for your planners reference.

Additional Comments/Observations:

4. Crop Fertilizer Input Worksheet

Crop Grown	*Field Number*	*Fertilizer Formula-tion*	*Application Rate lbs/ac*	*Application Method and Date*	*Application Depth*	*Soil Test*

Additional Comments/Observations:

Cropland Inventory

Pest Management Input

This worksheet includes information on the methods used to control pests and weeds on your operation. The following bullets include additional information to assist in completing this worksheet.

- Under the *Suppression Method* column please include the product name or the active ingredient of the method used to manage the target pest listed.
- Under the *Pesticide Application Rate* column include the pounds or ounces of the active ingredient (ai).
- In the *Broadcast or Banded* column , indicate if the pesticide was broadcast applied (more than 50% of field) or banded (less than 50% of field) if these options do not apply simply indicate not applicable.
- In the *Surface, Soil Incorporated or Foliar Applied* column, indicate if the pesticide was surface applied (applied to soil surface), soil incorporated (mixed into the soil with light tillage or irrigation), or foliar applied (sprayed on a nearly full crop/weed canopy and/or on a more than 50 percent residue cover). If none of these practices apply simply indicate not applicable.
- Under the *Application Metho*d column indicate if fertilizer was ground or aerial applied.

Please refer to the example below for reference and then fill out your information on the following page.

5. EXAMPLE: Pest Management Input Worksheet

Crop Grown	*Field Number*	*Target Pest*	*Suppression Method*	*Pesticide Application Rate*	*Date Applied*	*Broad-cast or Banded*	*Surface, Soil Incorp., or Foliar Applied*
Winter Wheat		**Downy Brome**	**Metribuzin**	**.3 lbs of ai**	**10/1**	**Broadcast**	**Surface**
Spring Barley		**Broadleaf Weeds**	**2, 4-D**	**.75 lbs of ai**	**Late May**	**Broadcast**	**Foliar**
Corn		**Weeds**	**Row cultivation 2x**	**----**	**5/1 to 5/20**	**----**	**----**
Alfalfa		**Clover Leaf Weevil**	**Malathion**	**1.0 lbs of ai**	**When needed**	**Broadcast**	**Foliar**
Potatoes		**Wireworm**	**Phorate**	**3.02 lbs ai per 1,000 feet if row**	**At planting**	**Banded**	**Soil Incorporated**

5. Pest Management Input Worksheet

Crop Grown	Field Number	Target Pest	Suppression Method	Pesticide Application Rate	Date Applied	Broad-cast or Banded	Surface, Soil Incorp., or Foliar Applied

Additional Comments/Observations:

Cropland Inventory

Irrigation Management and System Description

This worksheet includes information on your irrigation method and description. Please refer to the information below to help complete this worksheet.

The following information gives examples of irrigation descriptions needed and will help to complete the *Irrigation System Description* column.

Sprinkler System Description:

- Mainline Size
- Lateral Spacing
- Sprinkler Head Spacing
- Nozzle Size
- Revolution/Set Time
- Speed of Gun
- Operating Pressure of Line
- Pressure Regulator Rating
- Flow to Irrigation System (GPM)

Surface System Description:

- Length of Fields
- Furrow/Border Spacing
- Grade at the end of the field: flat, moderate, steep
- Furrow Method: siphon tubes, gated pipe, dirt ditch, concrete ditch

Please refer to the example below for your reference and then fill out your information on the following page.

6. EXAMPLE: Irrigation Management and System Description Worksheet

Crop Grown	*Tract Number*	*Field Numbers*	*Do you measure or monitor your water? If yes, explain*	*Irrigation System Description*	*Irrigation Dates*
Alfalfa & Potatoes	**696**	**5 & 6**	**Tensiometer**	**100 acre Center Pivot**	**5/15 - 8/20**
Winter Wheat/ Corn	**695**	**7**	**Hand feel method for moisture testing**	**15,000 ft of dirt ditch, 300 1.25 inch siphon**	**5/1 - 7/1**

6. Irrigation Management and System Description Worksheet

Crop Grown	*Tract Number*	*Field Numbers*	*Do you measure or monitor your water? If yes, explain*	*Irrigation System Description*	*Irrigation Dates*

Additional Comments/Observations:

Notes

Conservation Records

Range and Pasture Land Inventory

Range and Pasture Land Inventory

Livestock Inventory

The next two worksheets will break down your herd inventory needs (demands) and corresponding forage and roughage inventory available (supply). This will help you and your conservation planner determine if your grazing system is balanced for the most sustainable use of your grazing land.

This worksheet will provide an overall description of your livestock operation, including the number of animals you have and their corresponding animal unit equivalents (aue). One animal unit is equivalent to the intake required for one 1,000 pound mature cow and her calf (see chart below). This worksheet will also help to identify the appropriate number of Animal Units per Month (AUM) needed for your livestock. An AUM is the amount of forage needed to sustain one animal unit, or its equivalent, for one month. This equates to 26 pounds of dry feed for one day and 790 pounds of dry feed for one month. Your total AUMs/year (indicated with an asterisk) will determine the number of AUMs of forage or roughage needed for your operation. Use the chart below to help you determine the appropriate animal unit for your livestock type for column 3 of the worksheet titled *Animal Unit Equivalent*. Please refer to the example for your reference and then fill out your information on the following page.

Determining Animal Unit Equivalent	
Type of Livestock	***Animal Unit (au)***
1,000 lb Cow w/calf	**1.0 au**
1200 lb Cow w/calf	**1.15 au**
850 lb Replacement Heifers	**.9 au**
1,500 lb Bull	**1.35 au**
1,500 lb Horse	**1.25 au**
200 lb Ewe/Doe	**.16 au**

1. EXAMPLE: Livestock Inventory, Total AUMs Needed Worksheet

1	***2***	***3***	***4***	***5***	***6***
Livestock Type	***Number of Animals***	***Animal Unit Equivalent (aue)***	***Total AUs (multiply columns 2 & 3)***	***Months on Unit***	***Total AUMs Needed per year (Multiply column 4 by column 5)***
Pairs (1,200 lb)	**350**	**X 1.15 au =**	**403 AUs**	**X 12**	**= 4,836 AUMs/year**
Replacement Heifers	**30**	**0.9 au**	**27 AUs**	**12**	**324 AUMs/year**
Bulls	**20**	**1.35 au**	**27 AUs**	**12**	**324 AUMs/year**
Total Amounts	**400**		**457 AUs**		*** 5,484 AUMs/year**

Range and Pasture Land Inventory

1. Livestock Inventory, Total AUMs Needed Worksheet

1	2	3	4	5	6
Livestock Type	*Number of Animals*	*Animal Unit Equivalent (aue)*	*Total AUs (multiply columns 2 & 3)*	*Months on Unit*	*Total AUMs Needed per year (Multiply columns 4 and 5)*
	Animals X Animal Unit =		**AU's X**	**Months =**	**AUMs/year**
Totals					

Range and Pasture Land Inventory

Forage Inventory

The following worksheet will determine the total amount of forage on your operation. Utilizing this and the livestock inventory will allow you to create a balanced grazing program.

If you are unable to determine the amount of AUMs your pasture or range produces in a year, please contact your local NRCS conservation planner. This information is critical in order to complete the rest of the Rangeland Worksheets.

In order to calculate total AUMs on your field (column *4*) one of the following two calculations will be needed.

1) If your yield/acre per year (column 3) is calculated number of Acres per AUM then:
   Total Acres (column 2) divided by #Acres per AUM (column 3) equals Total AUMs per year (column 4).
2) If your yield/acre per year (column 3) has been calculated as number of AUMs per Acre then:
   Total Acres (column 2) multiplied by #AUMs (column 3) equals Total AUMs per year (column 4).

*Note: If your yield is in tons multiply the total number of tons by 2.54 to get the number of AUMs.

Please refer to the example for your reference and then fill out your information on the following page.

2. EXAMPLE: Forage Inventory, Number of AUMs Available Worksheet

1	*2*	*3*	*4*	*5*
Field Number/ Name	***Acres***	***Yield/Acre per Year***	***Total AUMs Available***	***Type of Forage or Feed***
Field 11,15, & 16	**18.4 ac**	**X 3.74 AUM/ac**	**= 68.8 AUMs**	**Alfalfa aftermath**
Tract 523	**5000 ac**	**/ 4 ac/AUM**	**= 1250 AUMs**	**Rangeland**
Tract 2395	**103**	**4.5 ac/AUM**	**464 AUMs**	**Irrigated Pasture**
Miller Place	**2000**	**0.33 ac/AUM**	**660 AUMs**	**Rangeland**
Home Place	**55**	**1.36 AUM/ac**	**75 AUMs**	**Irrigated Pasture**
Totals	**7,176.4**		**2,619.8 AUMs**	

Range and Pasture Land Inventory

2. Forage Inventory, Number of AUMs Available Worksheet

Field Number/ Name	*Acres*	*Yield/Acre per Year*	*Total AUMs Available*	*Type of Forage or Feed*
	Acres X AUM/Acre = Total AUMs			
	Acres / Acre/AUM = Total AUMs			
Totals				

Range and Pasture Land Inventory

Grazing System Plan

The following worksheet can be used to assist in your grazing management. Use the information identified in Worksheet 2 Forage Inventory, specifically, field, and total AUMs, to fill in the first two columns and then simply identify the herd or movement group and their AUs from column 4 of the Worksheet 1 Livestock Inventory and mark the corresponding time grazed in each field or pasture. This worksheet needs to show the grazing system for each of herd or movement group for your operation. Use additional sheets to document each year.

3. EXAMPLE: Grazing System Plan Worksheet YEAR: 2003

Field	AUMs	Herd	AUs	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tract 2395	464 AUMs	Pairs	403 au	Fed Hay			X						X	Fed Hay	
Miller Place	660 AUMs	Pairs	403 au					X	X						
Tract 523	1250 AUMs	Pairs	403 au							X	X	X			
Home Place	75 AUMs	Heifers	27	Fed Hay			X	X	X						
Fields 11, 15, 16	69	Heifers	27							X	X	X	Fed Hay		

Range and Pasture Land Inventory

3. Grazing Systems Plan Worksheet YEAR: _____

Field	AUMs	Herd	AUs	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Range and Pasture Land Inventory

Grazing Records for Range

This worksheet will combine the information you have determined and developed in the last three worksheets. The following charts are provided for your use in keeping track of your grazing records on rangeland and will help you determine the current balance of forage and animals on each field.

Use the following descriptions to determine your *Use Class* for the last column of the chart. At or near the end of the grazing period determine the degree of use from the chart below. When properly grazed, the vegetation left will supply adequate cover for soil protection and will maintain or improve the quantity and quality of desirable vegetation (identified as "Full" use below).

Degree of Use	*Description*
None : 0-15 percent	Very little or no use of key forage plants. Only choice areas and choice forage grazed.
Light: 16-35 percent	Key forage plants lightly to moderately used. Practically no use of low-value forage plants. Most of accessible range shows grazing. Very little trailing to grazing.
Moderate: 36-65 percent	Key forage plants used correctly for the season of grazing. Some use of low-value forage plants. All fully accessible areas are grazed; some trampling damage may be evident.
Heavy: 66-80 percent	Key forage plants closely cropped. Low value forage plants generally being grazed. Trampling damage is widespread in accessible areas.
Severe: 81-100 percent	Key forage plants are weakened from continual grazing of regrowth and mechanical damage. Low-value forage plants carrying the grazing load and are closely cropped.

4. EXAMPLE: Grazing Record - Range

Grazing Record - Range							
Field Name	Miller Place						
Year or Season	2003- Summer				*Total Acres*	2000	
Livestock Type	*Livestock Number*	*Date In*	*Date Out*	*Days Grazed*	*Animal Units*	*AUMs (Days x AUs / 30.4)*	*Use Class Percent*
Pairs	350	5/1	6/15	46	403	610	Moderate
Totals	350			46		610	

AUMs Available (From Forage Inventory Worksheet 2): 660

AUM Balance (AUMs Available - Total AUMs Column): + 50

Range and Pasture Land Inventory

4. Grazing Record - Range

Grazing Record - Range							
Field Name							
Year or Season					Total Acres		
Livestock Type	Livestock Number	Date In	Date Out	Days Grazed	Animal Units	AUMs (Days x AUs / 30.4)	Use Class Percent
Totals							

AUMs Available (From Forage Inventory Worksheet 2): _____

AUM Balance (AUMs Available - Total AUMs Column): _____

Grazing Record - Range							
Field Name							
Year or Season					Total Acres		
Livestock Type	Livestock Number	Date In	Date Out	Days Grazed	Animal Units	AUMs (Days x AUs / 30.4)	Use Class Percent
Totals							

AUMs Available (From Forage Inventory Worksheet 2): _____

AUM Balance (AUMs Available - Total AUMs Column): _____

Range and Pasture Land Inventory

Grazing Records for Pastureland

The following charts are provided for your use in keeping track of your grazing records on pastureland.

5. EXAMPLE: Grazing Record - Pasture

Grazing Record - Pasture							
Pasture Name	**Tract 2395**						
Year or Season	**2003**				***Total Acres***	**103**	
Soil Test (year)	**1999**				***Forage type***	**Orchardgrass**	
Fertilizer-date applied	**March 10, 2003: Broadcast**				***Fertilizer type***	**46-0-0 100 pounds/ac**	
Livestock Type	***Livestock Number***	***Last Irrigation***	***Date In***	***Forage Height***	***Date Out***	***Forage Height***	***Notes***
Pairs	**350**	**3-15**	**4-1**	**10 inches**	**5-1**	**4 inches**	**About 400 AUMs harvested.**

Additional Comments/Observations:

Range and Pasture Land Inventory

5. Grazing Record - Pasture

Grazing Record - Pasture							
Pasture Name							
Year or Season					Total Acres		
Soil Test (year)					Forage type		
Fertilizer-date applied					Fertilizer-type		
Livestock Type	Livestock Number	Last Irrigation	Date In	Forage Height	Date Out	Forage Height	Notes

Grazing Record - Pasture							
Pasture Name							
Year or Season					Total Acres		
Soil Test (year)					Forage type		
Fertilizer-date applied					Fertilizer-type		
Livestock Type	Livestock Number	Last Irrigation	Date In	Forage Height	Date Out	Forage Height	Notes

Range and Pasture Land Inventory

Pasture Nutrients Input

This worksheet contains information on the nutrient applications on your pastures. In the *Soil Test* column please indicate if your fertilizer application rate is based on soil test results.

Please refer to the example below for your reference and then fill out your information on the following page.

6. EXAMPLE: Pasture Nutrient Input

Forage Grown	*Field Number*	*Nutrient Source*	*Application Rate lbs/ac*	*Application Method and Date*	*Application Depth*	*Soil Test*
Irrigated Orchardgrass	**3 & 4**	**20-0-0**	**400 lbs/ac**	**Surface Broadcast 3 times**	**---**	**No**
Int. Wheatgrass and Alfalfa	**6**	**20-10-10**	**150 lbs/ac**	**Surface Broadcast 1 time**	**----**	**Yes**

If irrigated, has water been tested for nitrates? Yes _____ No _____
If you have the results from this test, please attach them to this page for your planners reference.

Additional Comments/Observations:

_____

_____

6. Pasture Nutrient Input Worksheet

Forage Grown	*Field Number*	*Nutrient Source*	*Application Rate lbs/ac*	*Application Method and Date*	*Application Depth*	*Soil Test*

Additional Comments/Observations:

Range and Pasture Land Inventory

Pasture and Range Pest Management Input

This worksheet includes information on the methods used to control pests and weeds on your operation. The following bullets include additional information to assist in completing this worksheet.

- Under the *Suppression Method* column please include the product name or the active ingredient of the method used to manage the target pest listed.
- Under the *Pesticide Application Rate* column include the pounds or ounces of the active ingredient (ai).
- In the *Broadcast or Banded* column , indicate if the pesticide was broadcast applied (more than 50% of field) or banded (less than 50% of field) if these options do not apply simply indicate not applicable.
- In the *Application Surface, Soil Incorporated or Foliar Applied* column, indicate if the pesticide was surface applied (applied to soil surface), soil incorporated (mixed into the soil with light tillage or irrigation), foliar applied (sprayed on a nearly full crop/weed canopy and/or on a more than 50 percent residue cover), if none of these practices apply simply indicate not applicable.
- Under the *Application Metho*d column indicate if fertilizer was ground or aerial applied.

Please refer to the example below for reference and then fill out your information on the following page.

7. EXAMPLE: Pasture and Range Pest Management Inputs

Forage Grown	*Field Number*	*Target Pest*	*Suppression Method*	*Pesticide Application Rate*	*Date Applied*	*Broad-cast or Banded*	*Surface, Soil Incorp., or Foliar Applied*
Irrigated Orchard-Grass	**3 & 4**	**Canada Thistle**	**Clipping/ Mowing**	**None**	**----**	**----**	**----**
Intermediate Wheatgrass and Alfalfa	**1**	**Sagebrush**	**Tebuthiuron**	**1.0 ai/ acre**	**November**	**Broadcast**	**Surface**

7. Pasture and Range Pest Management Inputs Worksheet

Crop Grown	*Field Number*	*Target Pest*	*Suppression Method*	*Pesticide Application Rate*	*Date Applied*	*Broad-cast or Banded*	*Surface, Soil Incorp., or Foliar Applied*

Additional Comments/Observations:

Range and Pasture Land Inventory

Pasture Irrigation Management

This worksheet includes information on your irrigation method and description. Please refer to the information below to help complete this worksheet.

The following information will help to complete the *Irrigation System Description* column.

Sprinkler System Description:
- Mainline Size
- Lateral Spacing
- Sprinkler Head Spacing
- Nozzle Size
- Revolution/Set Time
- Speed of Gun
- Operating Pressure of Line
- Pressure Regulator Rating
- Flow to Irrigation System (GPM)

Surface System Description:
- Length of Fields
- Furrow/Border Spacing
- Grade at the end of the field: flat, moderate, steep
- Furrow Method: siphon tubes, gated pipe, dirt ditch, concrete ditch

Please refer to the example below for your reference and then fill out your information on the following page.

8. EXAMPLE: Pasture Irrigation Management Worksheet

Forage Grown	*Tract Number*	*Field Numbers*	*Do you measure or monitor your water? If yes, explain*	*Irrigation System Description*	*Irrigation Dates*
Alfalfa	**696**	**5 & 6**	**Tensiometer**	**100 acre Center Pivot**	**5/15 - 7/15**
Meadow Foxtail	**100**	**7**	**Hand feel method for moisture testing**	**5,000 ft of dirt ditch, earth cutouts to graded**	**5/1 - 7/15**

8. Pasture Irrigation Management Worksheet

Forage Grown	*Tract Number*	*Field Numbers*	*Do you measure or monitor your water? If yes, explain*	*Irrigation System Description*	*Irrigation Dates*

Additional Comments/Observations:

Notes

Determining Your Conservation Security Program (CSP) Category

On the following pages, please indicate the conservation practices and activities you have completed on your land, as well as those you would like to complete over the course of your CSP contract. At the end of each section, a summary table is provided to help you make an initial determination regarding the category in which you qualify for CSP.

Conservation Security Program - Cropland

CSP Cropland Practices:

By field, please select conservation practices from the following list that you have completed and those you plan to complete. Indicate the field(s) where you plan to complete the practices in the boxes provided. These practices will be used in determining the category in which your application is placed.

NRCS Cropland Practices	*Field(s) where Practice is already applied*	*Field(s) where you plan to apply this Practice*
❑ Atmospheric Resources Quality Management (370)		
❑ Composting (317)		
❑ Conservation Crop Rotation (328)		
❑ Constructed Wetland (656)		
❑ Contour Buffer Strips (332)		
❑ Contour Orchard and Other Fruit Area (331)		
❑ Cover Crop (340)		
❑ Critical Area Planting (342)		
❑ Cross Wind Ridges (589A)		
❑ Cross Wind Trap Strips (589C)		
❑ Field Border (386)		
❑ Filter Strip (393)		
❑ Forage Harvest Management (511)		
❑ Hedgerow Planting (422)		
❑ Herbaceous Wind Barriers (603)		
❑ Irrigation System-Micro-irrigation (441)		
❑ Irrigation Water Management (449)		
❑ Mulching (484)		
❑ Pasture & Hayland Planting (512)		
❑ No Till/Direct Seed (329d1)		
❑ Prescribed Grazing (on cropland) (528)		
❑ Residue Management (329)		
❑ Riparian Forest Buffer (391)		
❑ Riparian Herbaceous Cover (390)		
❑ Sediment Basin (350)		
❑ Stream Habitat Improvement & Management (395)		
❑ Stripcropping (585)		
❑ Structure for Water Control (587)		
❑ Water & Sediment Control Basin (638)		
❑ Well Decommissioning (351)		
❑ Wetland Enhancement (659)		
❑ Windbreak/Shelterbelt Establishment (380)		

Conservation Security Program - Cropland

CSP Cropland Activities:

By field, please select conservation activities from the following list that you have completed and those you plan to complete. Indicate the field(s) where you plan to complete the practices in the boxes provided. These activities will be used in determining the category in which your application is placed.

NRCS Cropland Activities	*Field Number(s) where Activity is already applied*	*Field Number(s) where you plan to apply this Activity*
❑ Addition of soil amendments such as polyacrylamide (PAM) or gypsum		
❑ Collection of yield data		
❑ Conduct an energy audit on the agricultural operation		
❑ Conduct spraying activities and other control of noxious/invasive weeds on a spot basis		
❑ Harvest crops from center of field outward		
❑ Increase amount of sod or perennial crops in rotation for a minimum of 2 years		
❑ Irrigation system efficiency evaluations and adjustment		
❑ Low energy precision application sprinklers		
❑ Minimize use of irrigation by planting alternative crops with reduced water needs		
❑ Minimize the use of pesticides by using pest resistant plant varieties		
❑ Precise application of nutrients such as – banding, side dressing, injection, fertigation		
❑ Split Nitrogen Application to meet crop needs		
❑ Surge irrigation		
❑ Test soil and/or plant tissue on annual basis		
❑ Use a risk assessment tool such as WINPST to select the least toxic product to minimize harmful effects on human health and environmental resources		
❑ Use established local integrated pest management guidelines to set economic thresholds for pest to minimize use of pesticides and herbicides		
❑ Use of a resource-conserving crop rotation		
❑ Use of beneficial insects		
❑ Use of data from on-farm weather station		
❑ Use of tensiometers or other techniques to assess and improve irrigation water management		
❑ Use of yield monitoring data		
❑ Weather stations installation and/or data collection		

Conservation Security Program - Cropland

CSP Cropland Categories

Category	Criteria			
	Soil Conditioning Index	Stewardship Practices in place for 2 or more years	Stewardship Activities in place for two or more years	Actions to be completed by the third contract year
A	at least 0.1	at least 3 practices	at least 3 activities	Agree to move to next Tier or to complete two additional Stewardship practices or activities
B	at least 0.0	at least 3 practices	at least 3 activities	Agree to move to next Tier or to complete two additional Stewardship practices or activities
C	at least 0.1	at least 2 practices	at least 2 activities	Agree to complete two additional Stewardship Practices or Activities
D	at least 0.0	at least 2 practices	at least 2 activities	Agree to complete two additional Stewardship Practices or Activities
E	at least 0.1	at least 2 practices	at least 1 activity	Agree to complete two additional Stewardship Practices or Activities
F	at least 0.0	at least 1 practice	at least 1 activity	Agree to complete two additional Stewardship Practices or Activities
G	at least 0.0	at least 1 practice	no activities	Agree to complete two additional Stewardship Practices or Activities
H	Must meet minimum program eligibility requirements as defined in 7CFR1469			Do not agree to complete additional actions by the end of the third contract year

CSP Cropland Category Determination:

Using the activities and practices you selected on pages CSP-2 and CSP-3, indicate the number of practices you have applied and the number you plan to apply by field. Then, if you are in Tier I or Tier II, indicate whether you are interested in moving to the next tier. Using the Category determinations on page CSP-4, you can then make an initial estimate of category by field. During your interview, NRCS conservation planning staff will determine your soil conditioning index, which will be used to make your final category determination.

Field #	Acres	# of Practices in Place for >2 yrs	# of Activities in Place >2yrs	# Practices or Activities Planned	Move to Next Tier? (yes/no)	Initial Category	Determined by NRCS	
							Soil Conditioning Index	Final Category
Total								

Conservation Security Program - Pastureland

CSP Pastureland Practices:

By field, please select conservation practices from the following list that you have completed and those you plan to complete. Indicate the field(s) where you plan to complete the practices in the boxes provided. These practices will be used in determining the category in which your application is placed.

Practice	*Field Number(s) where practice is already applied*	*Field Number(s) where you plan to apply this practice*
❑ Animal Trails and Walkways (575)		
❑ Brush Management (314)		
❑ Channel Bank Vegetation (322)		
❑ Critical Area Planting (342)		
❑ Fence (for sensitive area protection only) (382)		
❑ Grassed Waterway (412)		
❑ Grazing Land Mechanical Treatment (548)		
❑ Heavy Use Area Protection (561)		
❑ Irrigation Water Management (449)		
❑ Pasture and Hay Planting (512)		
❑ Pipeline (516)		
❑ Pond (378)		
❑ Prescribed Burning (338)		
❑ Riparian Herbaceous Cover (390)		
❑ Soil Salinity Management – Nonirrigated (571)		
❑ Spring Development (574)		
❑ Stream Crossing (578)		
❑ Stream Habitat Improvement and Management (395)		
❑ Streambank & Shoreline Protection (580)		
❑ Waste Utilization (pathogen & organic runoff control) (633)		
❑ Water & Sediment Control Basin (638)		
❑ Water Well (642)		
❑ Watering Facility (614)		
❑ Wetland Enhancement (659)		

Conservation Security Program - Pastureland

CSP Pastureland Activities:

By field, please select conservation activities from the following list that you have completed and those you plan to complete. Indicate the field(s) where you plan to complete the practices in the boxes provided. These activities will be used in determining the category in which your application is placed.

Activity	*Field Number(s) where Activity is already applied*	*Field Number(s) where you plan to apply this Activity*
❑ Added functional group pastures		
❑ Conduct an energy audit on the agricultural operation		
❑ Confinement animal wastes, if applied, are injected		
❑ Flash graze riparian corridors to keep healthy grass stands on streambanks in former prairie areas		
❑ Grazing distribution facilitated by watering locations, based on locally identified distances between water locations and water available in each sub-divided pasture		
❑ Improved laneways		
❑ Increased plant diversity – forbs and legumes greater than 40%		
❑ Integrated pest management activities for weeds, brush, insects, or diseases		
❑ Interseeding		
❑ Livestock ponds and watering areas have controlled access points or are outfitted with watering facility		
❑ Pastured bottomland or riparian area is treated as a separate grazing treatment unit and alternative watering facilities in place		
❑ Rotate feeding and salting areas		
❑ Rotational grazing		
❑ Test soil and/or plant tissue test every 3 years on pastures not receiving confinement wastes		
❑ Time grazing on a portion of paddocks to create habitat for targeted species		

Conservation Security Program - Pastureland

CSP Pastureland Categories

Category	*Criteria*			
	Overall Pasture Condition Scoring Assessment	***Stewardship Practices in place for 2 or more years***	***Stewardship Activities (from list on next page) in place for two or more years***	***Actions to be completed by the third contract year***
A	**at least 45**	**at least 3 practices**	**at least 3 activities**	**Agree to move to next Tier or to complete two additional Stewardship practices or activities**
B	**at least 45**	**at least 2 practices**	**at least 2 activities**	**Agree to complete two additional Stewardship practices or activities**
C	**at least 35**	**at least 3 practices**	**at least 3 activities**	**Agree to move to next Tier or to complete two additional Stewardship practices or activities**
D	**at least 35**	**at least 2 practices**	**at least 2 activities**	**Agree to complete two additional Stewardship Practices or Activities**
E	**at least 35**	**at least 2 practices**	**at least 1 activity**	**Agree to complete two additional Stewardship Practices or Activities**
F	**at least 25**	**at least 1 practice**	**at least 1 activity**	**Agree to complete two additional Stewardship Practices or Activities**
G	**at least 25**	**at least 1 practice**	**no activities**	**Agree to complete two additional Stewardship Practices or Activities**
H	**Must meet minimum program eligibility requirements as defined in 7CFR1469**			**Do not agree to complete additional actions by the end of the third contract year**

CSP Pastureland Category Determination:

Using the activities and practices you selected on pages CSP-6 and CSP-7, indicate the number of practices you have applied and the number you plan to apply by field. Then, if you are in Tier I or Tier II, indicate whether you are interested in moving to the next tier. Using the Category determinations on page CSP-8, you can then make an initial estimate of category by field. During your interview, NRCS conservation planning staff will determine your pasture condition score, which will be used to make your final category determination.

Field #	*Acres*	*# of Practices in Place for >2 yrs*	*# of Activities in Place >2yrs*	*# of Practices or Activities Planned*	*Move to Next Tier? (yes/no)*	*Initial Category*	*Determined by NRCS*	
							Pasture Condition Score	*Final Category*
Total								

Conservation Security Program - Rangeland

CSP Rangeland Practices:

By field, please select conservation practices from the following list that you have completed and those you plan to complete. Indicate the field(s) where you plan to complete the practices in the boxes provided. These practices will be used in determining the category in which your application is placed.

NRCS Conservation Practice	*Field Number(s) where practice is already applied*	*Field Number(s) where you plan to apply this practice*
❑ Animal Trails and Walkways (575)		
❑ Brush Management (314)		
❑ Channel Bank Vegetation (322)		
❑ Channel Stabilization (584)		
❑ Critical Area Planting (342)		
❑ Fence (for sensitive area protection only) (382)		
❑ Heavy Use Area Protection (561)		
❑ Pipeline (516)		
❑ Pond (378)		
❑ Prescribed Burning (338)		
❑ Range Planting (550)		
❑ Riparian Herbaceous Cover (390)		
❑ Spring Development (574)		
❑ Stream Crossing (578)		
❑ Stream Habitat Improvement and Management (395)		
❑ Streambank and Shoreline Protection (580)		
❑ Upland Wildlife Habitat Management (645)		
❑ Water and Sediment Control Basin (638)		
❑ Watering Facility (614)		
❑ Water Well (642)		
❑ Watering Facility (614)		
❑ Wetland Enhancement (659)		
❑ Wetland Restoration (657)		

Conservation Security Program - Rangeland

CSP Rangeland Activities:

By field, please select conservation activities from the following list that you have completed and those you plan to complete. Indicate the field(s) where you plan to complete the practices in the boxes provided. These activities will be used in determining the category in which your application is placed.

NRCS Conservation Activities	*Field Number(s) where Activity is already applied*	*Field Number(s) where you plan to apply this Activity*
❑ Application of monitoring protocols		
❑ Brush and weed management utilizing integrated techniques that include follow-up treatment		
❑ Conduct an energy audit on the agricultural operation		
❑ Create a mosaic or pattern to enhance wildlife habitat linkages and corridors through mechanical, chemical or burning means		
❑ Management that provides for shallow water wildlife habitat improvement		
❑ Management that provides for upland wildlife habitat improvement		
❑ Management that provides for wetland wildlife habitat improvement		
❑ Managing vegetative fuels to reduce wildfire hazards		
❑ Participating in grassbanking		
❑ Planting high diversity native grassland mixtures		
❑ Prescribed burn prescriptions designed to create a mosaic or pattern to enhance wildlife habitat linkages and corridors		
❑ Use of decision support tools in development of grazing management plans, such as Grazing Lands Spatial Analysis		
❑ Tool (GSAT), Nutritional Balance Analyzer (NUTBAL), Water Erosion Prediction Project (WEPP), etc.		

Conservation Security Program - Rangeland

CSP Rangeland Categories

Category	Criteria		
	Rangeland Health Assessment	*Stewardship practices and activities in place for 2 or more years*	*Actions to be completed by the third contract year*
A	none to slight for all 3 attributes	Prescribed grazing plus 3 or more practices or activities in place including brush management or range seeding resource needs adequately addressed	Agree to move to next Tier or to complete 2 additional stewardship practices or activities
B	none to slight for all 3 attributes	Prescribed grazing plus 2 or more practices or activities in place including brush management or range seeding resource needs adequately addressed	Agree to move to next Tier or to complete 2 additional stewardship practices or activities
C	none to slight for 2 attributes and slight to moderate for 1	Prescribed grazing plus 3 or more practices or activities in place including brush management or range seeding resource needs adequately addressed	Agree to complete two additional Stewardship Practices or Activities
D	none to slight for 2 attributes and slight to moderate for 1 attribute	Prescribed grazing plus 2 or more practices or activities in place including brush management or range seeding resource needs adequately addressed	Agree to complete two additional Stewardship Practices or Activities
E	none to slight for 1 attribute and slight to moderate for 2 attributes	Prescribed grazing plus 2 or more practices or activities in place including brush management or range seeding resource needs adequately addressed	Agree to complete two additional Stewardship Practices or Activities
F	none to slight for 1 attribute and slight to moderate for 2 attributes	Prescribed grazing plus 2 or more practices or activities in place	Agree to complete two additional Stewardship Practices or Activities
G	slight to moderate for 2 attributes	Prescribed grazing plus 1 or more practices or activities in place	Agree to complete two additional Stewardship Practices or Activities
H	Must meet minimum program eligibility requirements as defined in 7CFR1469		Do not agree to complete additional actions by the end of the third contract year

CSP Rangeland Category Determination:

Using the activities and practices you selected on pages CSP-10 and CSP-11, indicate the number of practices you have applied and the number you plan to apply by field. Then, if you are in Tier I or Tier II, indicate whether you are interested in moving to the next tier. Using the Category determinations on page CSP-12, you can then make an initial estimate of category by field. During your interview, NRCS conservation planning staff will determine your rangeland health assessment, which will be used to make your final category determination.

Field #	Acres	Range Seeding or Brush Management applied?	# of Practices or Activities in Place >2yrs	Move to Next Tier? (yes/no)	Initial Category	Determined by NRCS			
						Rangeland Health Assessment			Final Category
						Soil Site Stability	Hydrologic Function	Biotic Integrity	
Total									

Conservation Security Program - Category Summary

The following table **will be completed by your NRCS conservation planner** during your CSP interview. The categories will be based on an average of the final categories determined by field, which is based on both the condition of the land and the conservation work you have completed and agree to do.

Categories To Be Determined by NRCS Conservation Planner			
Cropland			
Total Acres =		**Enrollment Category =**	
Pastureland			
Total Acres =		**Enrollment Category =**	
Rangelend			
Total Acres =		**Enrollment Category =**	

Conservation Security Program - Subcategories

In addition to CSP categories, which are used to determine contract funding, CSP also includes sub-categories. Categories will be funded in order (A-H). If an enrollment category cannot be completely funded, then subcategories will be used to determine funding in the order provided below. Please check any categories that apply to you or your agricultural operation.

Funding Order	*Subcategory*	*Applies to Applicant (yes/no)*
1	Applicant is a limited resource producer (see definition in CSP Rule)	
2	Applicant is a participant in an ongoing monitoring program	
3	Agricultural operation in a designated water conservation area or aquifer zone	
4	Agricultural operation in a designated drought area	
5	Agricultural operation in a designated water quality area, such as designated watersheds with Total Maximum Daily Load (TMDL) limits with a priority on pesticides	
6	Agricultural operation in a designated water quality area, such as designated watersheds with TMDL limits with a priority on nutrients	
7	Agricultural operation in a designated water quality area, such as designated watersheds with TMDL limits with a priority on sediment	
8	Agricultural operation in a designated non-attainment area for air quality or other local or regionally designated air quality zones	
9	Agricultural operation in a designated area for threatened and endangered species habitat creation and protection	
10	Participation in an ongoing watershed plan or conservation project	
11	Agricultural operation is intermingled with public land where there is no way to distinguish the public from the private land for management purposes; and	
12	Other applications.	

Conservation Security Program - Documentation

Now that you have completed your documentation and made an initial estimate of your category by field, NRCS conservation planning staff will assist you with making your final category determination and submitting your application.

Please contact your local NRCS office to set up a time for an interview to complete this process.

Pendleton: 541-278-8049 ext. 105
Heppner: 541-676-5021 ext. 109
Mission: 541-966-2325

For your interview, please bring:

- This packet
- An extra copy of pages 1-16 of your CSP Self-assessment Workbook
- A copy of the latest soils tests for the fields you plan to enroll in CSP
- Any other documentation of conservation practices you have installed on your land, including:
  - 'as-built' documentation (drawings, engineering notes, etc.)
  - photographs
  - receipts
  - records of your pesticide and nutrient applications

Appendix A - CSP Cost List (New Practices)

Below is a list of new practices that can potentially receive cost-share through the Conservation Security program. ALL NEW PRACTICES RECEIVE COST-SHARE AT A RATE OF 50% of the amount listed below. New practice payments cannot exceed a total of $10,000 for the life of the contract.

Practice Name	*Units*	*Cost per Unit*
Channel Bank Vegetation	**Acre**	**$100**
Contour Buffer Strips	**Acre**	**$50**
Critical Area Planting (Sensitive Areas Only)	**Acre**	**$160**
Pond	**Number**	**$5,000**
Windbreak/Shelterbelt Establishment	**Feet**	**$3**
Fence (for sensitive or exclusion areas only)	**Feet**	**$1.50**
Field Border	**Feet**	**$.90**
Riparian Herbaceous Cover	**Acre**	**$96**
Riparian Forest Buffer	**Acre**	**$300**
Filter Strips	**Acre**	**$106**
Stream Habitat Improvement and Management	**Acre**	**$10,000**
Grassed Waterway	**Acre**	**$96**
Hedgerow Planting	**Feet**	**$3**
Pasture and Hayland Planting	**Acre**	**$96**
Pipeline	**Feet**	**$2**
Grazing Land Mechanical Treatment	**Acre**	**$25**
Range Planting	**Acre**	**$198**
Spring Development	**Number**	**$2,200**
Animal Trails and Walkways	**Feet**	**$4**
Stream Crossing (access road)	**Feet**	**$19**
Streambank and Shoreline Protection	**Feet**	**$75**
Structure for Water Control	**Number**	**$600**
Herbaceous Wind Barrier	**Feet**	**$.32**
Watering Facility	**Number**	**$750**
Water and Sediment Control Basin	**Number**	**$3,000**
Waterwell	**Number**	**$5,000**
Restoration Management of Declining Habitats	**Acre**	**$250**
Wildlife Watering Facility	**Number**	**$1,000**
Constructed Wetland	**Acre**	**$300**
Wetland Restoration	**Acre**	**$225**
Cross Wind Ridges	**Acre**	**$50**
Cross Wind Trap Strips	**Acre**	**$60**

Appendix B - CSP Cost List (Enhancements)

Below is a list of enhancements that can potentially receive cost-share through the Conservation Security program. ALL ENHANCEMENTS ARE PAID AT A RATE OF 100% of the amount listed below. The total of your enhancement payments cannot exceed 50% of the statutory caps for Tier I, II, and III contracts which are $20,000, $35,000 and $45,000, respectively.

Practice Name	*Description*	*Unit*	*Pmt. Per Unit*
Soil Management	**Soil Conditioning Index for each 0.1 increase above 0.0**	**Acre**	**$1.16**
Nutrient Management	**Apply fertilizer at or below agronomic rate**	**Acre**	**$.70**
	Establish vegetative barriers	**Feet**	**$6**
	Injection, side dressing, or banding of fertilizer	**Acre**	**$6**
	Nitrification inhibitors	**Acre**	**$6**
	Non-commercial fertilizers	**Acre**	**$6**
	Precision Ag techniques	**Acre**	**$6**
	Utilize soil/manure/plant tissue test results	**Acre**	**$6**
	Split nitrogen application	**Acre**	**$6**
Nutrient Management - Waste Utilization	**Deep soil testing**	**Each**	**$20**
	Immediate incorporation (low residue loss)	**Acre**	**$7**
	Plant high nutrient utilization crops	**Acre**	**$12**
Nutrient Management - Feeding Program	**Reduce phosphorus and nitrogen excretion**	**Head**	**$10**
Pest Management	**Conservation crop rotation to break pest cycles and decrease pest pressure**	**Acre**	**$10**
	Develop refuge habitat for beneficial organisms	**Acre**	**$20**
	Implement an integrated pest management (IPM) plan	**Acre**	**$30**
	Implement an invasive species control plan	**Acre**	**$20**
	Install on-farm weather stations	**Each**	**$2,500**
	Minimize off-site losses	**Acre**	**$1**
	Reduce hazardous pesticides - "Low" or "Very Low" WIN-PST hazard ratings	**Acre**	**$15**
	Reduced pesticide application; low rates, spot treatment, banding, etc.	**Acre**	**$10**
	Substitute non-chemical control methods - to control insects	**Acre**	**$20**
	Substitute non-chemical control methods - to control plant pests	**Acre**	**$30**
	Use "bio" pesticides	**Acre**	**$200**
	Use pest avoidance techniques - pest resistant varieties, trap crops, etc.	**Acre**	**$5**
	Widen field borders	**Acre**	**$100**
	Widen filter strips	**Acre**	**$200**
	Widen riparian herbaceous buffers	**Acre**	**$200**
	Widen riparian forest buffers	**Acre**	**$500**

Appendix B CSP Cost List (Enhancements)

Practice Name	Description	Unit	Pmt. Per Unit
Irrigation	Irrigation Enhancement Index Level 1 - 60 - 64%	Acre	$1.80
	Irrigation Enhancement Index Level 2 - 65 - 69%	Acre	$3.60
	Irrigation Enhancement Index Level 3 - 70 -74%	Acre	$5.40
	Irrigation Enhancement Index Level 4 - 75 - 79%	Acre	$7.20
	Irrigation Enhancement Index Level 5 - 80 - 84%	Acre	$9
	Irrigation Enhancement Index Level 6 - 85% plus	Acre	$10.80
Grazing Management	Nutritional Balance Analyzer (NUTBAL) assessment - forage quality and quantity	Year	$200
	Collect and Record Ecological Site Description Data	Number	$1,000
	Coordinated resource management plan	Year	$500
	Exclude grazing in riparian areas	Acre	$10
	Grazing assessment tools	Each	$500
	Manage grazing in riparian areas	Acre	$10
	Monitor key areas (photo points)	Number	$150
	No hormones used	Head	$10
	Only sub-therapeutic antibiotics used	Head	$10
	Rest-Rotation grazing on rangeland	Acre	$1.50
	Rotation Grazing on Pasture	Acre	$3.50
	Rotation of salt, mineral, and supplemental feeding areas	Acre	$2
	Spot treatment, hand cutting, individual plant treatment	Acre	$1
	Off-site water source development	Each	$150
Habitat Management	Selected Species Habitat Index = .6	Acre	$8
	Selected Species Habitat Index = .7	Acre	$11
	Selected Species Habitat Index = .8	Acre	$14
	Selected Species Habitat Index = .9	Acre	$17
	Selected Species Habitat Index = 1.0	Acre	$20
	Wildlife Habitat Index = .6	Acre	$4
	Wildlife Habitat Index = .7	Acre	$6
	Wildlife Habitat Index = .8	Acre	$8
	Wildlife Habitat Index = .9	Acre	$10
	Wildlife Habitat Index = 1.0	Acre	$12
	Participate in a ESA Conservation Agreement	Each	$1,000
Air Resource Management	Prescribed burning for wildfire control	Acre	$1
	Practice same day incorporation to control odor from applied animal waste	Acre	$1
	Convert to cleaner burning fuels	Each	$5,000
	Cover storage pits or lagoons to reduce odor	Sq. Ft.	$1
	Control dust with environmentally safe palliatives	Acre	$25

Appendix B - CSP Cost List (Enhancements)

Practice Name	Description	Unit	Pmt. Per Unit
Air Resource Management	Grind stumps & chip prunings in lieu of burning	Year	$2,000
	Implement an odor control plan for manure treatment facilities	Year	$1,000
	Install dry scrubbers for exhaust gases from building	Each	$1,000
	Sprayer Calibration	Each	$100
	Install bio-filters to limit or control exhausted emissions	Each	$2,500
	Install fans, wind machines or clean burning orchard heaters	Acre	$25
Energy Management	10% energy use reduction	Total BTU's	$250
	20% energy use reduction	Total BTU's	$500
	5% energy use reduction	Total BTU's	$150
	Energy audit of agriculture operations	Each	$500
	Recycle 100% of on-farm lubricants	Each	$200
	Renewable energy fuel (soy biodiesel, ethanol); 100-500	Gal	$125
	Renewable energy fuel (soy biodiesel, ethanol); 501-1,000	Gal	$125
	Renewable energy generation (wind, solar, geothermal & methane)	Per 100 kWh	$2.50
	STIR rating less than 10	Acre	$.90
	STIR rating less than 20	Acre	$.70
	STIR rating less than 60	Acre	$.50

Notes